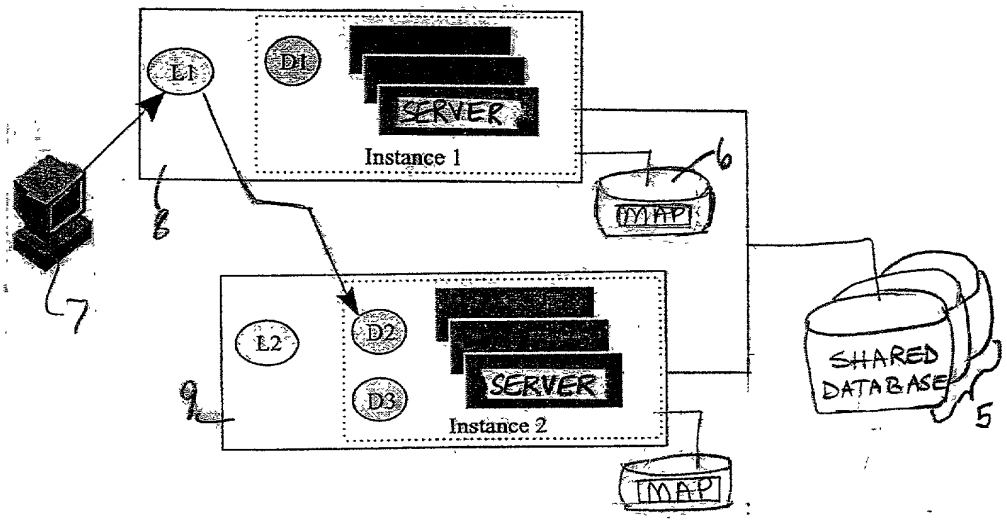


FIG. 1
(PRIOR ART)

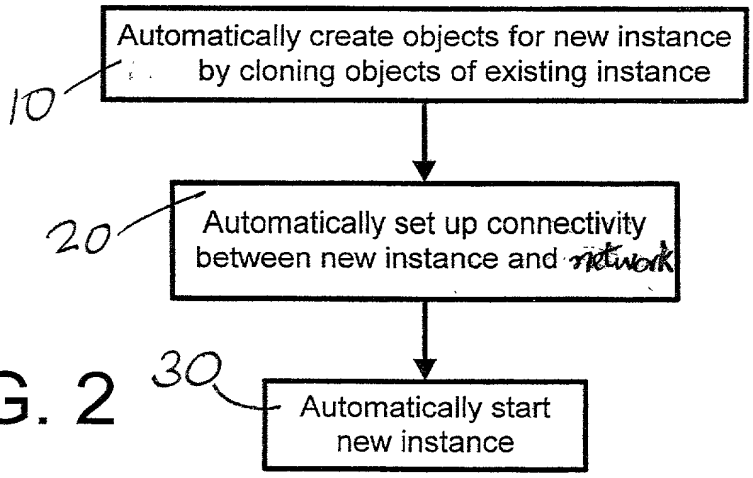


FIG. 2

FIG. 3

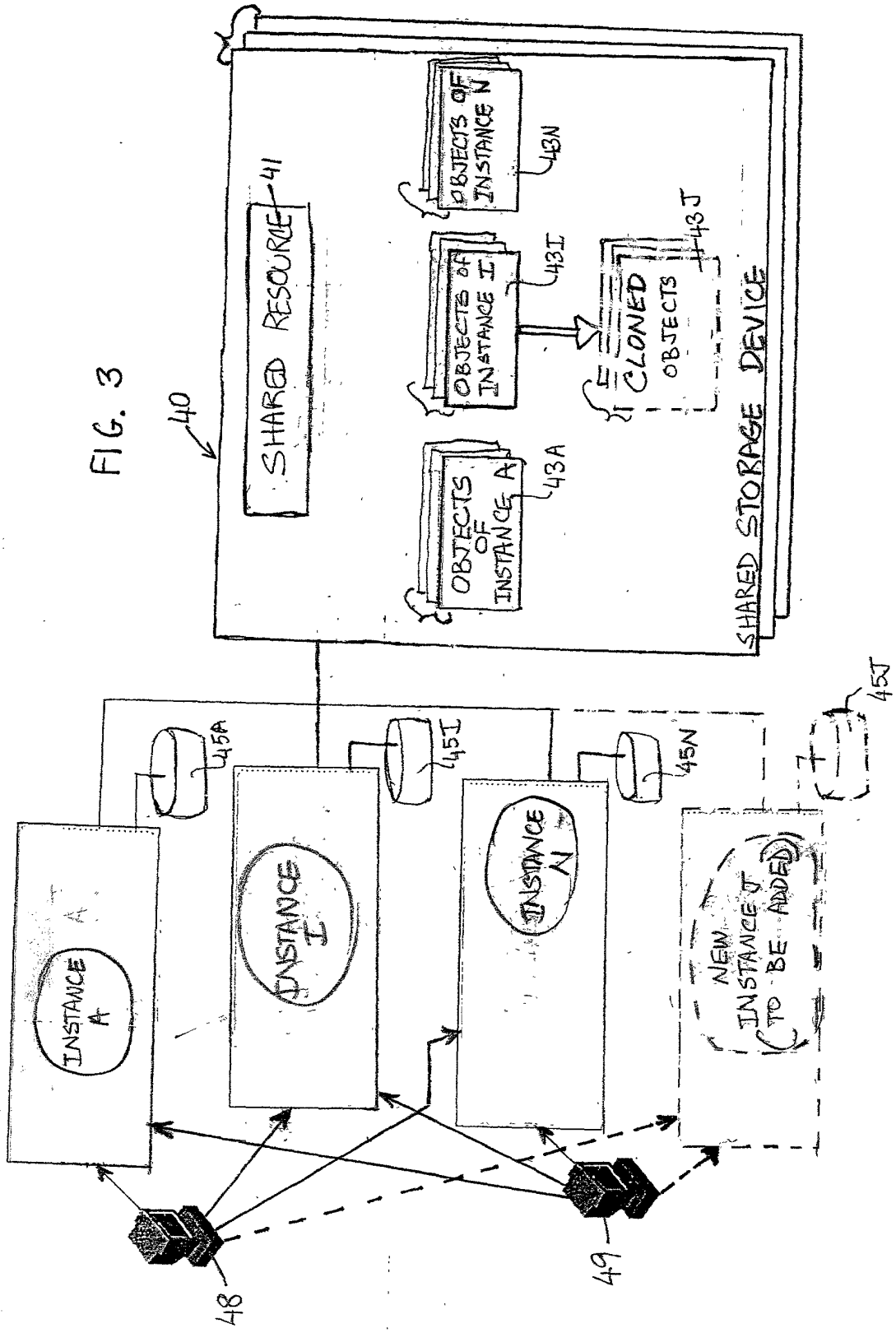
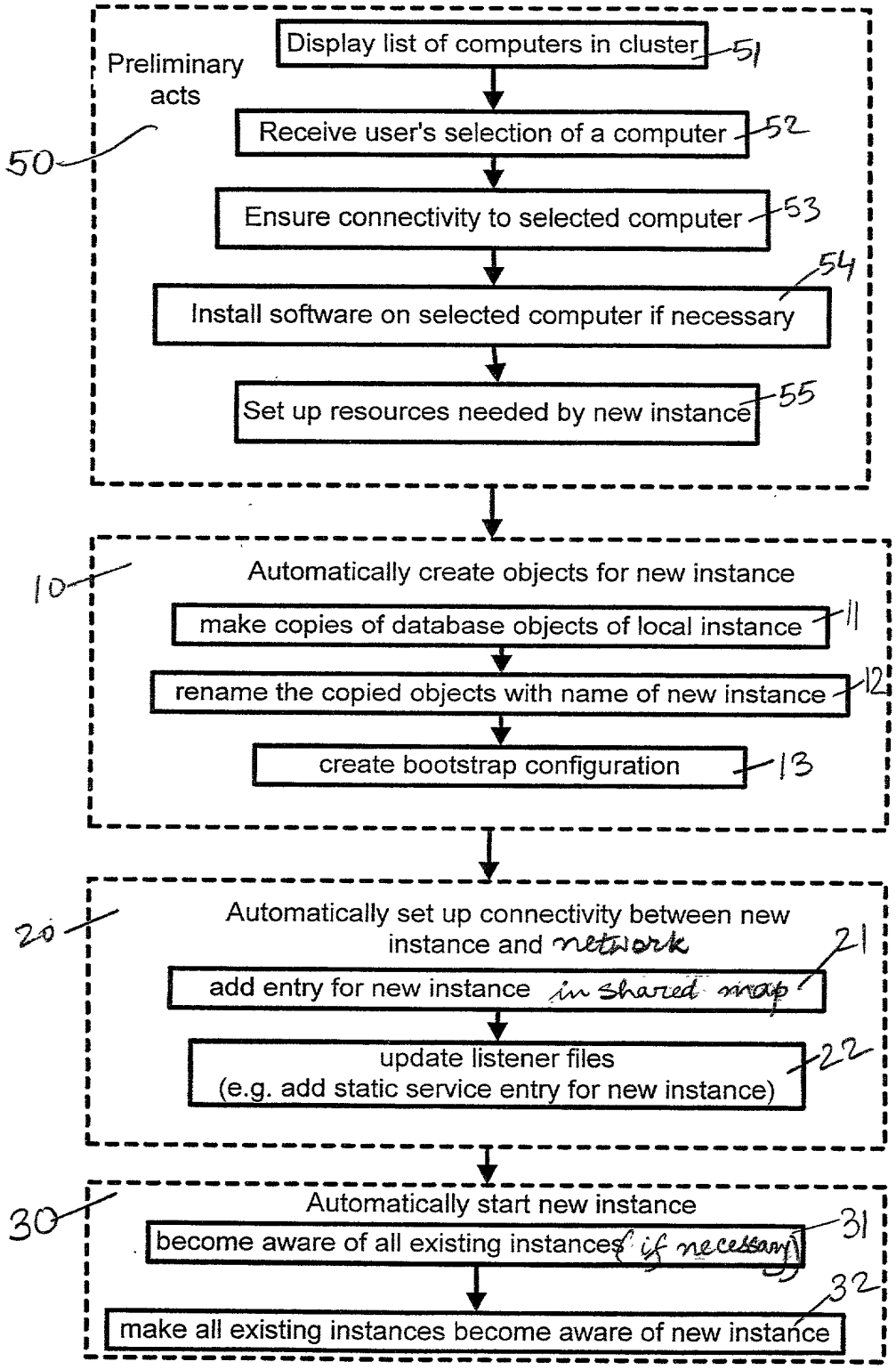

40
SHARED RESOURCE
41
SHARED STORAGE DEVICE
OBJECTS OF INSTANCE A
43A
OBJECTS OF INSTANCE I
43I
CLONED OBJECTS
43J
OBJECTS OF INSTANCE N
43N
45A
45I
45N
45J
INSTANCE A
INSTANCE I
INSTANCE N
NEW INSTANCE J (TO BE ADDED)
48
49

FIG. 4


Preliminary acts
50
Display list of computers in cluster
51
Receive user's selection of a computer
52
Ensure connectivity to selected computer
53
Install software on selected computer if necessary
54
Set up resources needed by new instance
55
10
Automatically create objects for new instance
make copies of database objects of local instance
11
rename the copied objects with name of new instance
12
create bootstrap configuration
13
20
Automatically set up connectivity between new instance and network
21
add entry for new instance in shared map
update listener files
(e.g. add static service entry for new instance)
22
30
Automatically start new instance
become aware of all existing instances if necessary
31
make all existing instances become aware of new instance
32

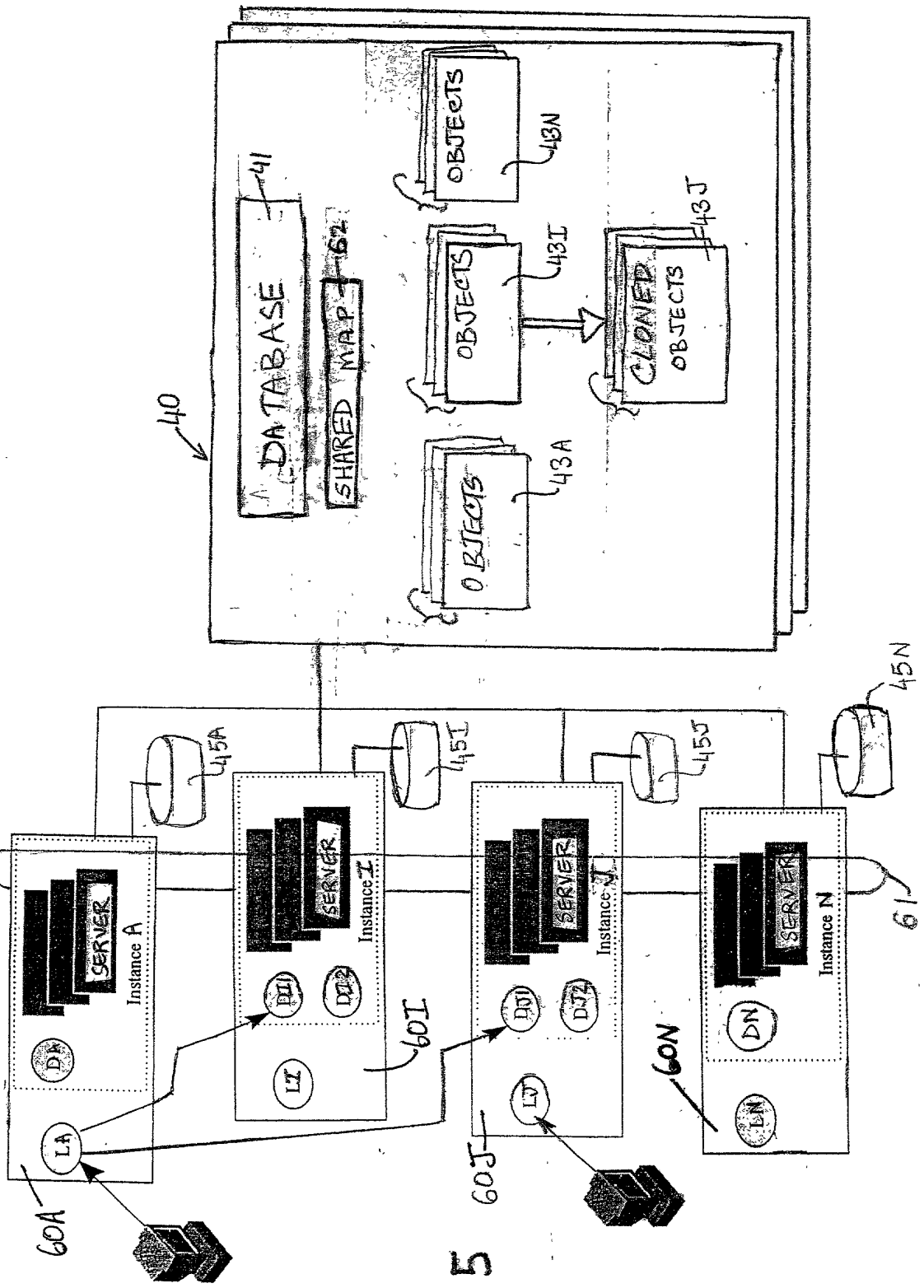

40
DATABASE
41
SHARED MAP
62
OBJECTS
43N
OBJECTS
43I
CLONED OBJECTS
43J
OBJECTS
43A
45A
45I
45J
45N
61
SERVER
Instance A
Instance I
Instance J
Instance N
LA
LI
LJ
LN
DA
DI1
DI2
DJ1
DJ2
DN
60A
60I
60J
60N

FIG 5

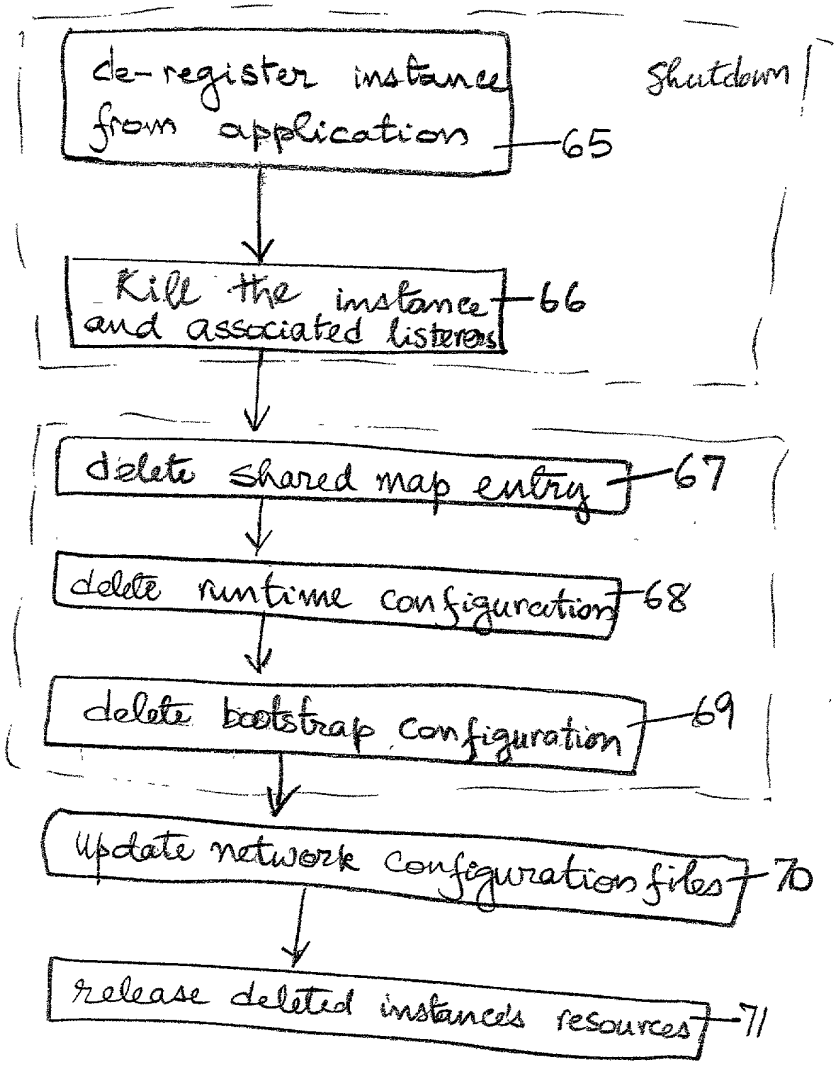

Shutdown
de-register instance from application
65
Kill the instance and associated listeners
66
delete shared map entry
67
delete runtime configuration
68
delete bootstrap configuration
69
Update network configuration files
70
release deleted instances resources
71

FIG. 6

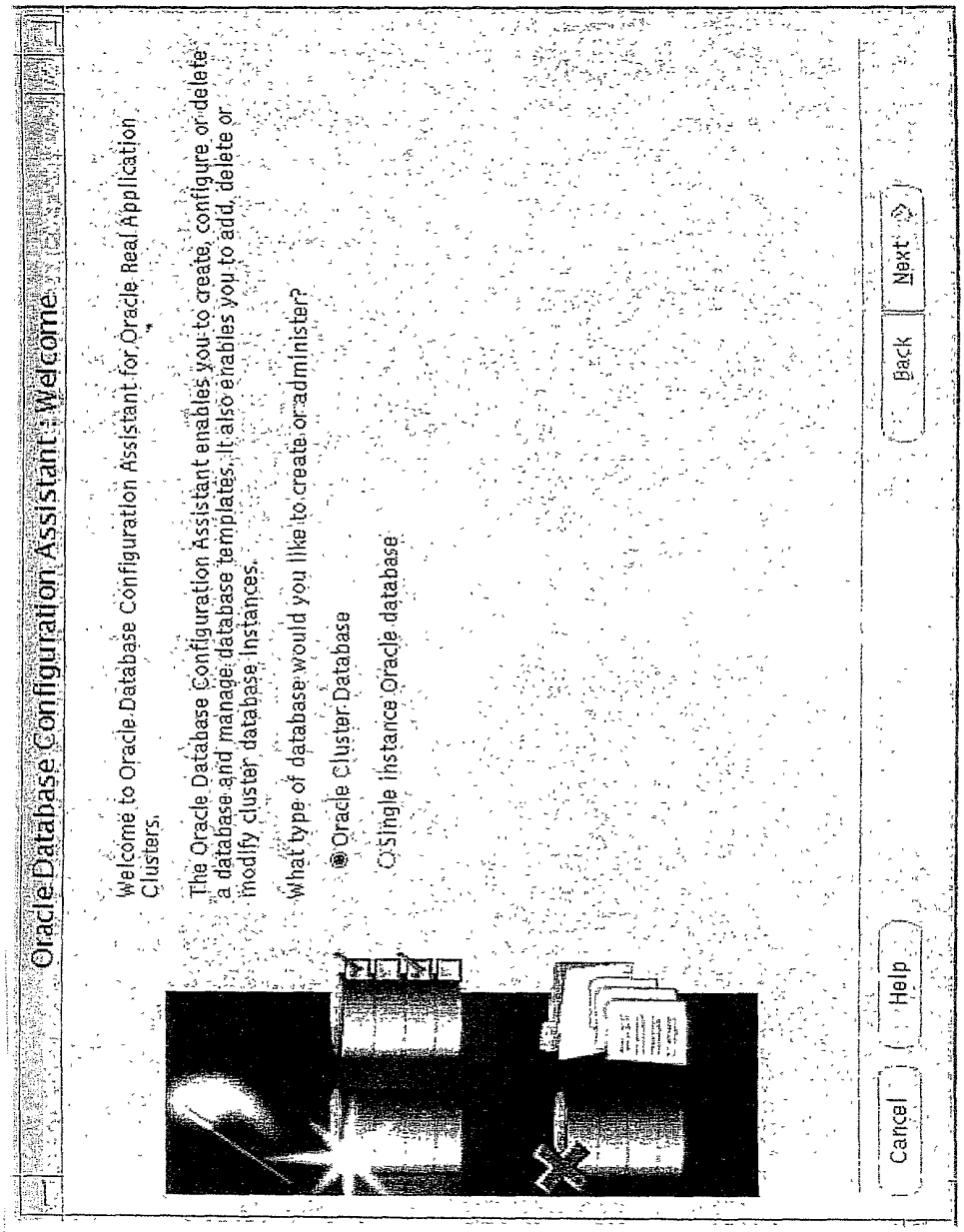

Oracle Database Configuration Assistant: Welcome
Welcome to Oracle Database Configuration Assistant for Oracle Real Application Clusters.
The Oracle Database Configuration Assistant enables you to create, configure or delete a database and manage database templates. It also enables you to add, delete or modify cluster database instances.
What type of database would you like to create or administer?
Oracle Cluster Database
Single Instance Oracle database
Cancel
Help
Back
Next

FIG. 7

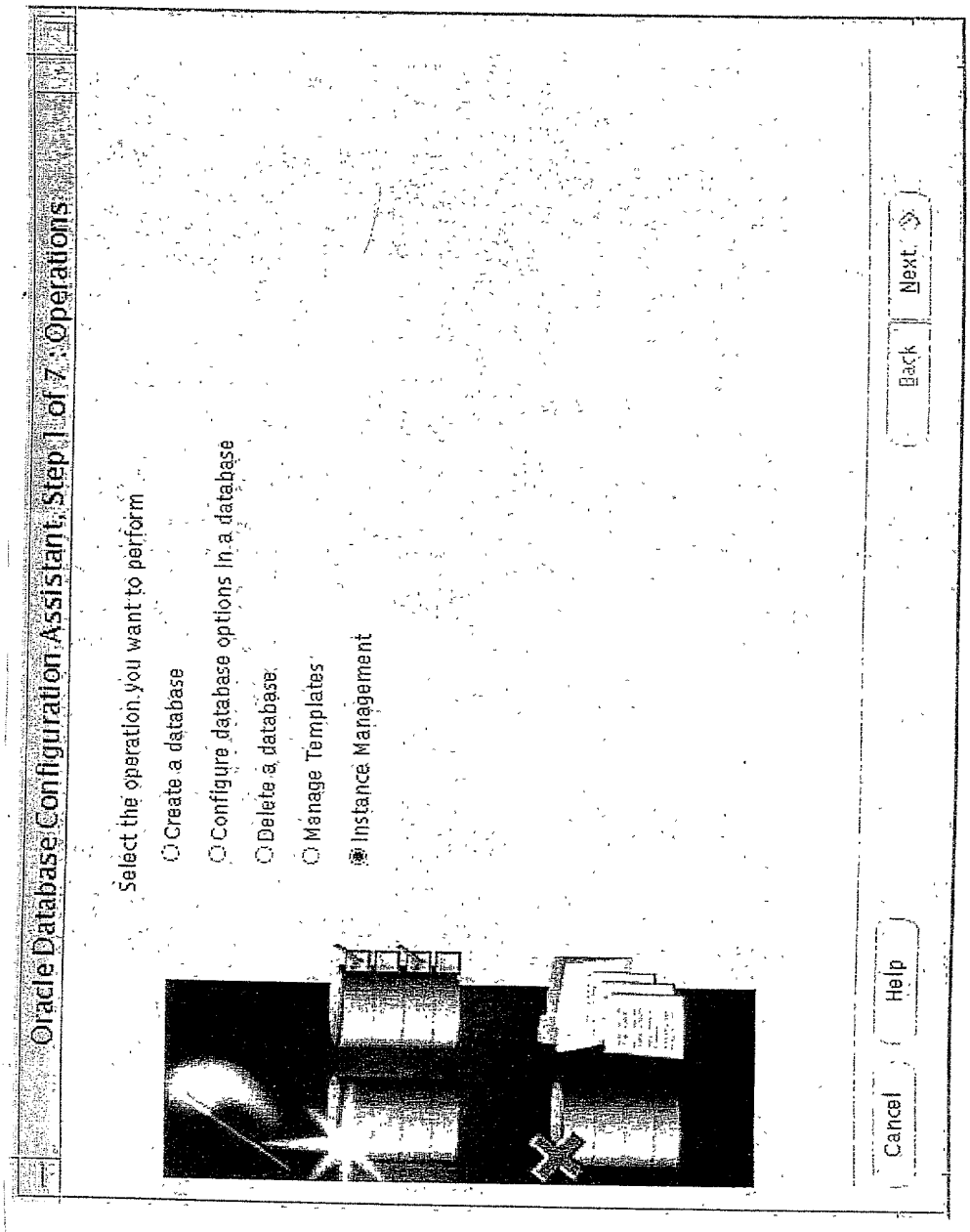

Oracle Database Configuration Assistant, Step 1 of 7 : Operations
Select the operation you want to perform
Create a database
Configure database options in a database
Delete a database
Manage Templates
Instance Management
Cancel
Help
Back
Next

FIG. 8

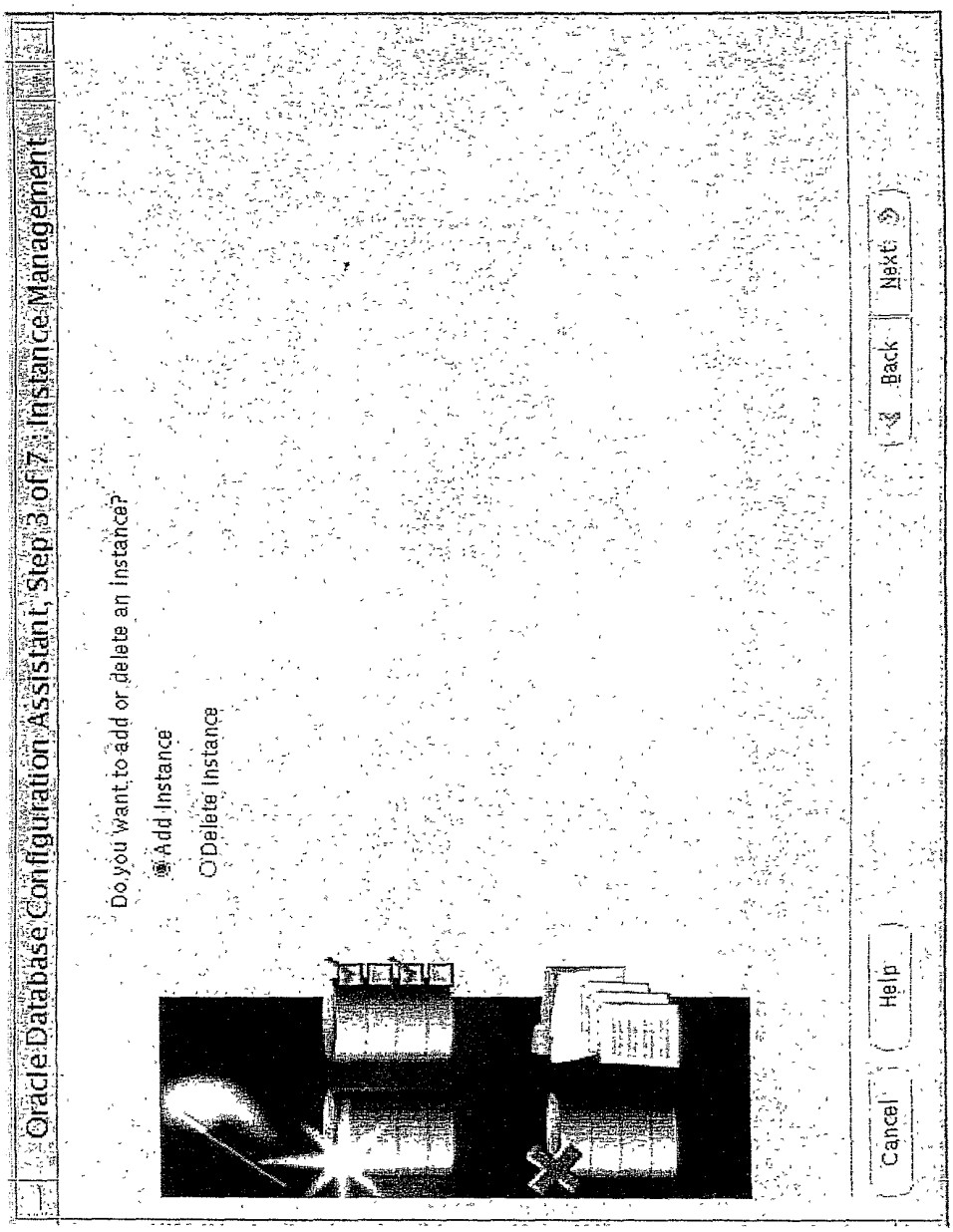

Oracle Database Configuration Assistant, Step 3 of 7 : Instance Management
Do you want to add or delete an instance?
Add Instance
Delete Instance
Cancel
Help
Back
Next

FIG. 9

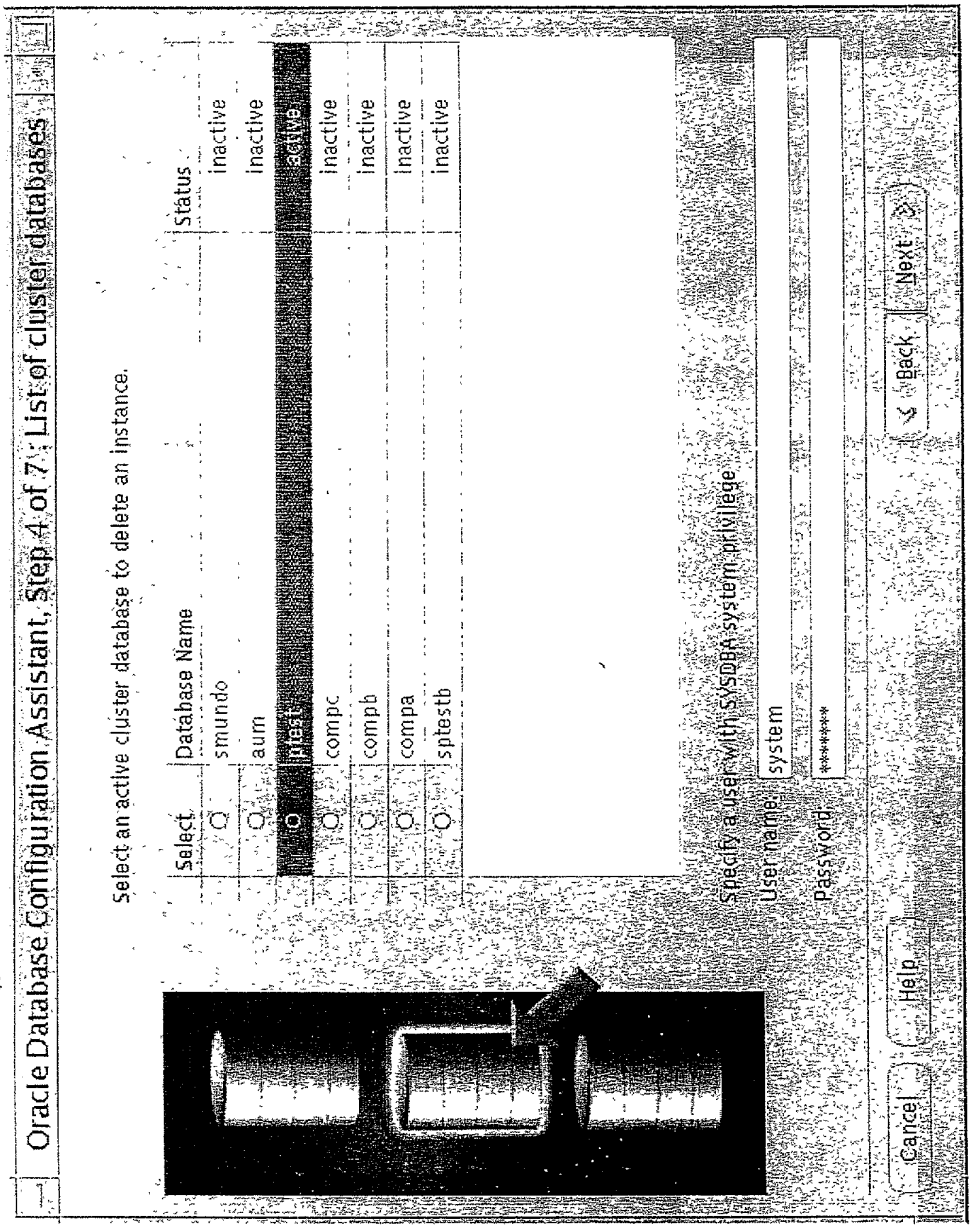

Oracle Database Configuration Assistant, Step 4 of 7 : List of cluster databases
Select an active cluster database to delete an instance.
Select
Database Name
Status
smundo
inactive
aum
inactive
test
active
compc
inactive
compb
inactive
compa
inactive
sptesth
inactive
Specify a user with SYSDBA system privilege
User name:
system
Password:
Cancel
Help
Back
Next

FIG. 10

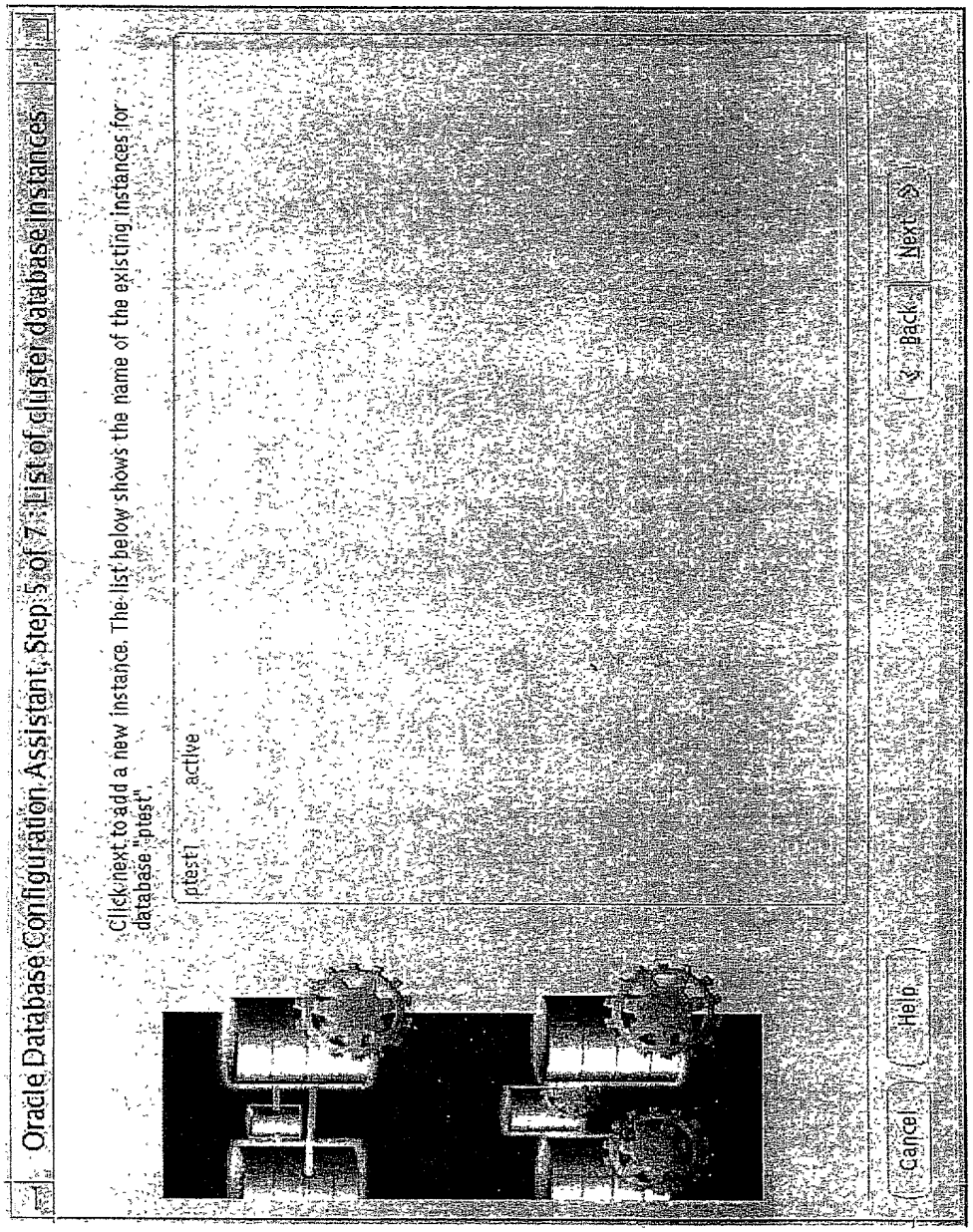

Oracle Database Configuration Assistant, Step 5 of 7: List of cluster database instances
Click next to add a new instance. The list below shows the name of the existing instances for database "ptest".
ptest1 active
Cancel
Help
Back
Next

FIG. 11

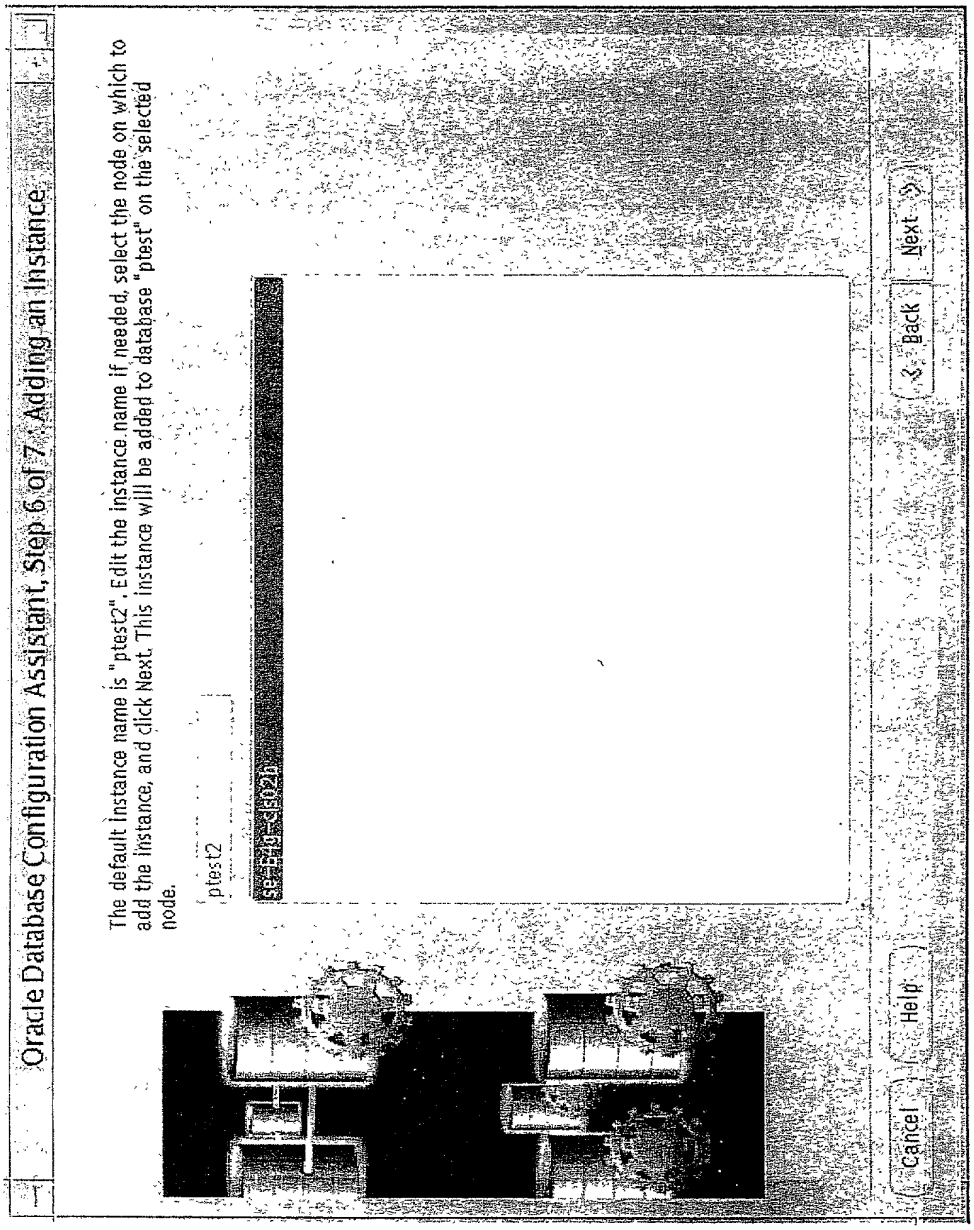

Oracle Database Configuration Assistant, Step 6 of 7: Adding an Instance
The default instance name is "ptest2". Edit the instance name if needed, select the node on which to add the instance, and click Next. This instance will be added to database "ptest" on the selected node.
ptest2
Cancel
Help
< Back
Next >

FIG. 12

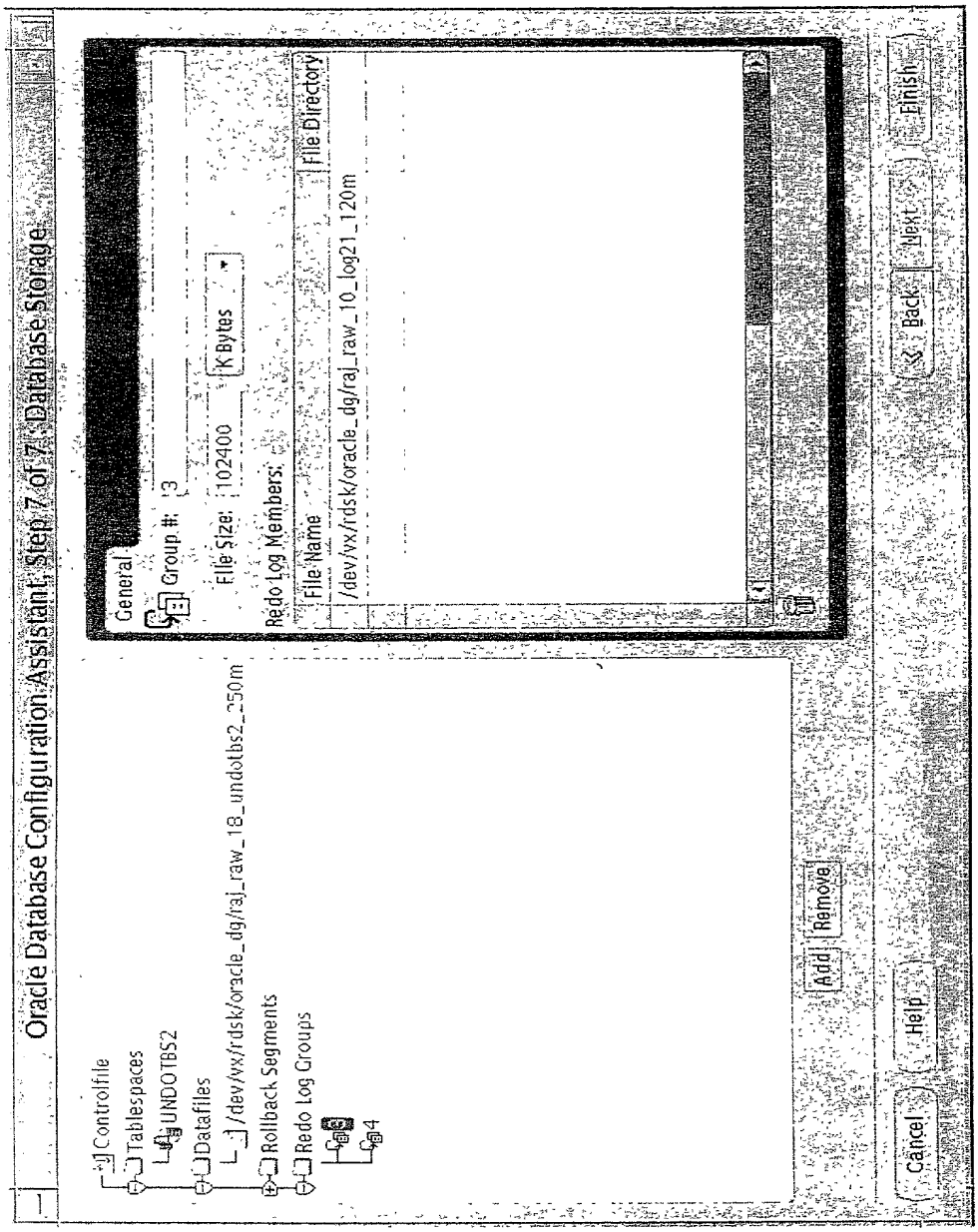

Oracle Database Configuration Assistant: Step 7 of 7: Database Storage
Controlfile
Tablespaces
UNDOTBS2
Datafiles
/dev/vx/rdsk/oracle_dg/raj_raw_18_undotbs2_250m
Rollback Segments
Redo Log Groups
4
General
Group #: 3
File Size: 102400
K Bytes
Redo Log Members:
File Name
File Directory
/dev/vx/rdsk/oracle_dg/raj_raw_10_log21_120m
Add
Remove
Cancel
Help
Back
Next
Finish

FIG. 13

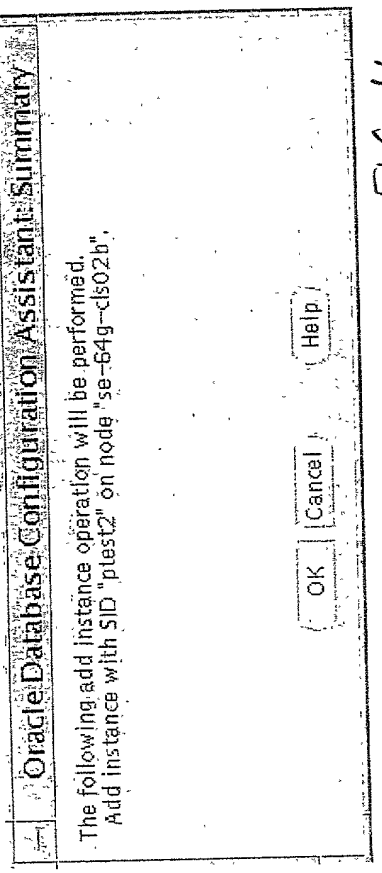

Oracle Database Configuration Assistant: Summary
The following add instance operation will be performed.
Add instance with SID "ptest2" on node "se-64g-cls02b".
OK
Cancel
Help

FIG. 14

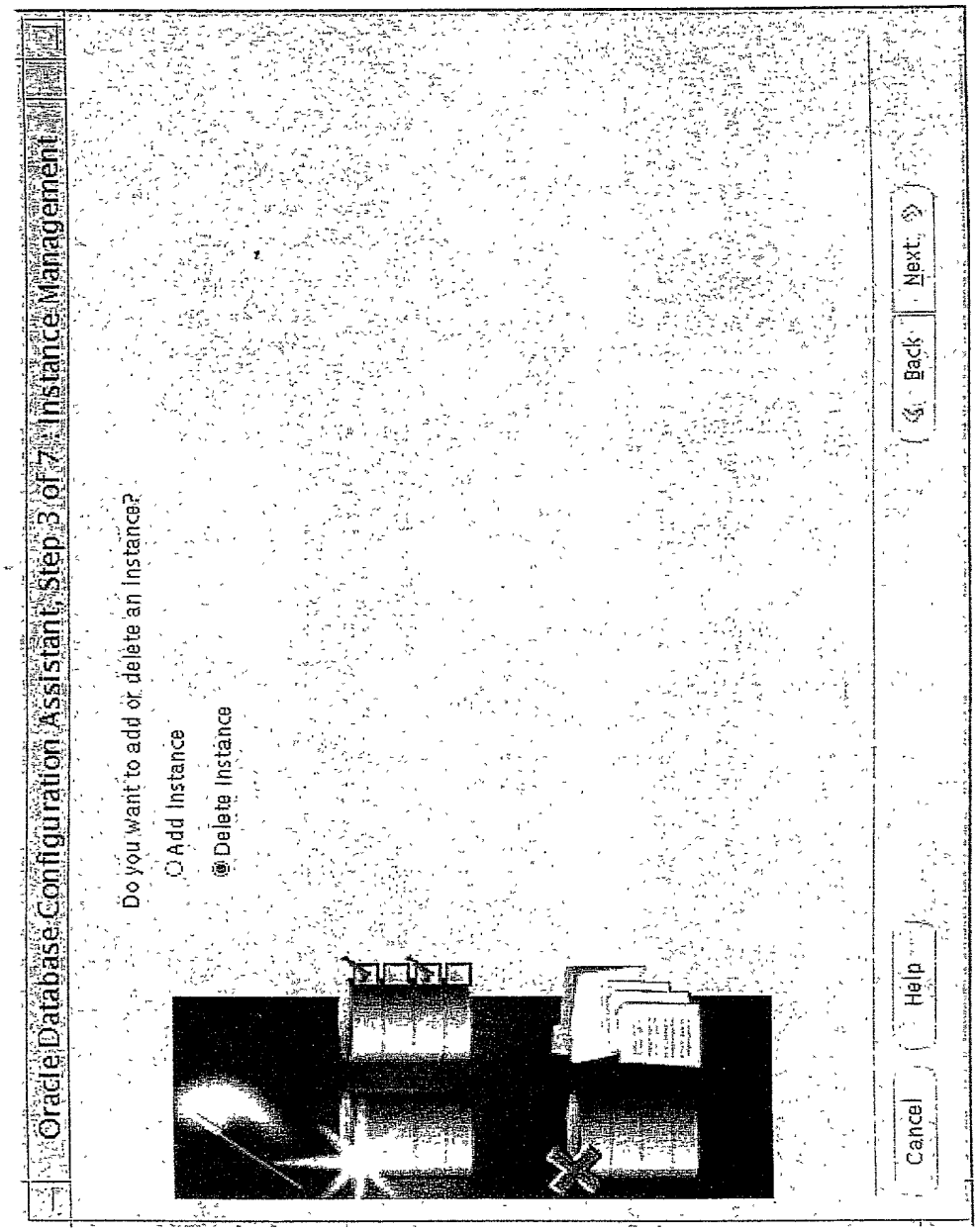

Oracle Database Configuration Assistant, Step 3 of 7: Instance Management
Do you want to add or delete an instance?
Add Instance
Delete Instance
Cancel
Help
Back
Next

FIG. 15

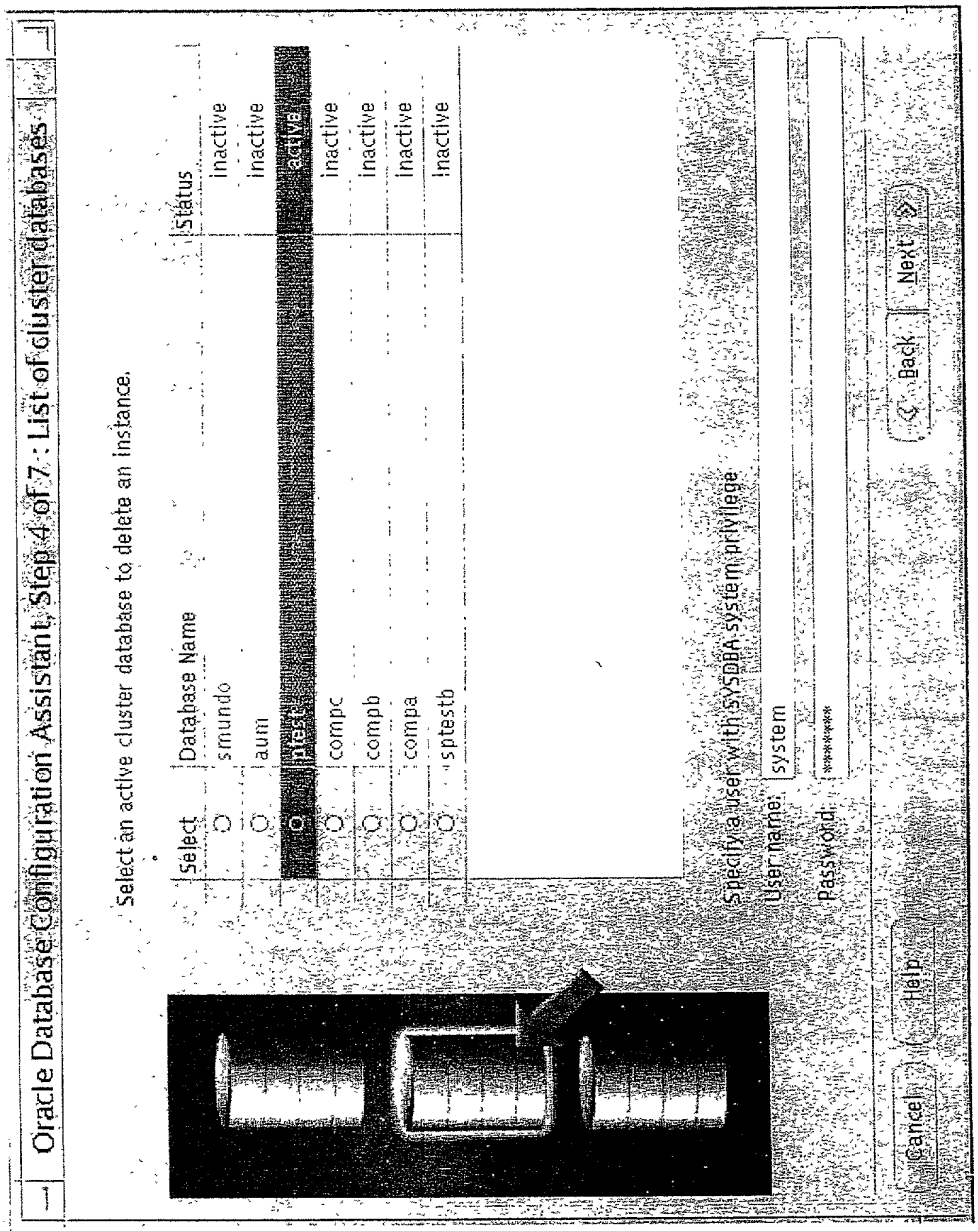

Oracle Database Configuration Assistant, Step 4 of 7 : List of cluster databases
Select an active cluster database to delete an instance.
Select
Database Name
Status
smundo
Inactive
aum
Inactive
Inactive
compc
Inactive
compb
Inactive
compa
Inactive
sptestb
Inactive
Specify a user with SYSDBA system privilege
User name:
system
Password:
Cancel
Help
Back
Next

FIG. 16

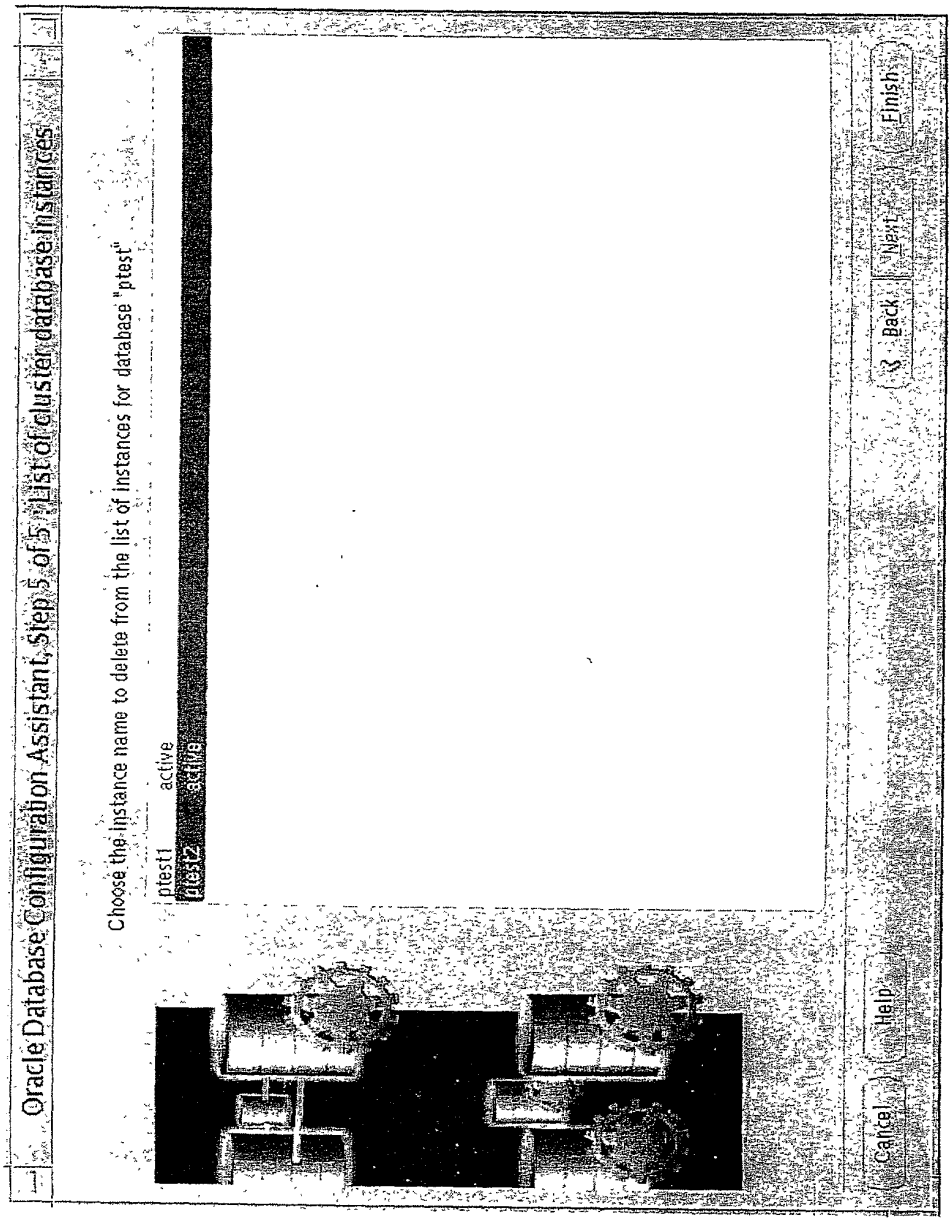

Oracle Database Configuration Assistant, Step 5 of 5: List of cluster database instances
Choose the instance name to delete from the list of instances for database "ptest"
ptest1 active
ptest2 active
Cancel
Help
Back
Next
Finish

FIG. 17

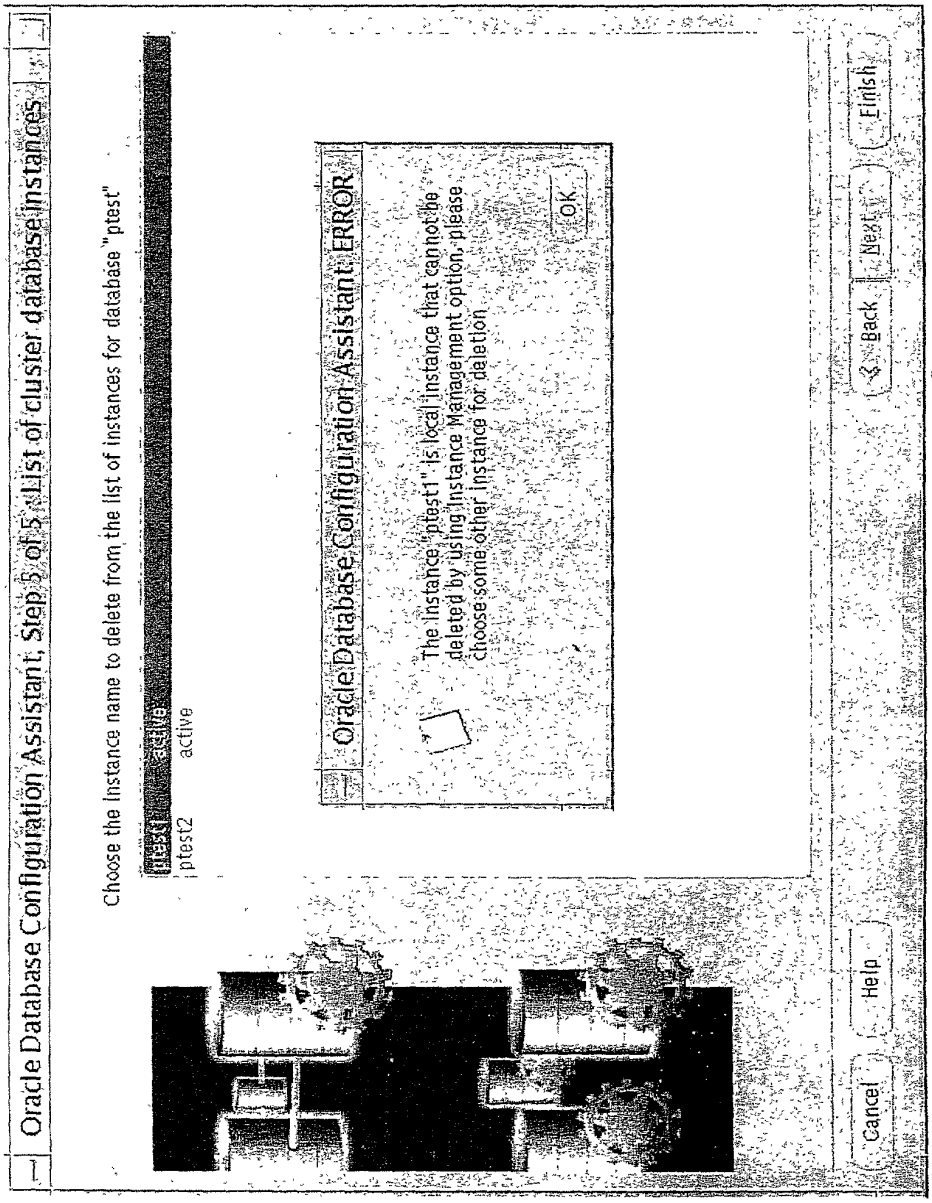

Oracle Database Configuration Assistant, Step 5 of 5 : List of cluster database instances
Choose the Instance name to delete from the list of instances for database "ptest"
ptest1 active
ptest2 active
Oracle Database Configuration Assistant: ERROR
The instance "ptest1" is local instance that cannot be deleted by using Instance Management option, please choose some other instance for deletion
OK
Cancel
Help
Back
Next
Finish

FIG. 18

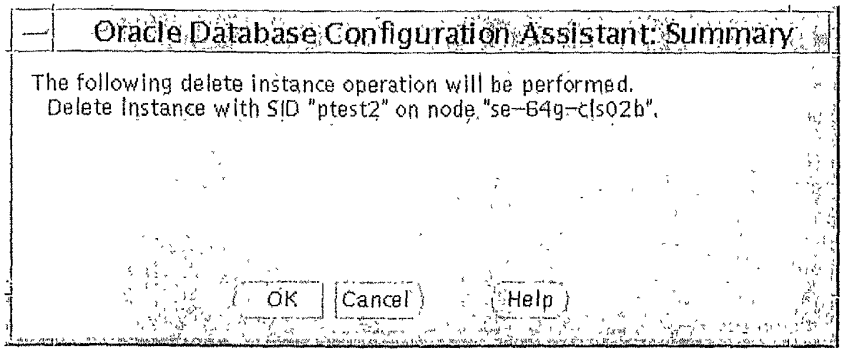

Oracle Database Configuration Assistant: Summary
The following delete instance operation will be performed.
Delete instance with SID "ptest2" on node "se-64g-c[s02b".
OK
Cancel
Help

FIG. 19